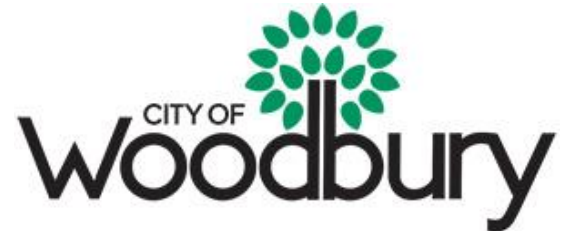


Smart Irrigation Education

March 14, 2018

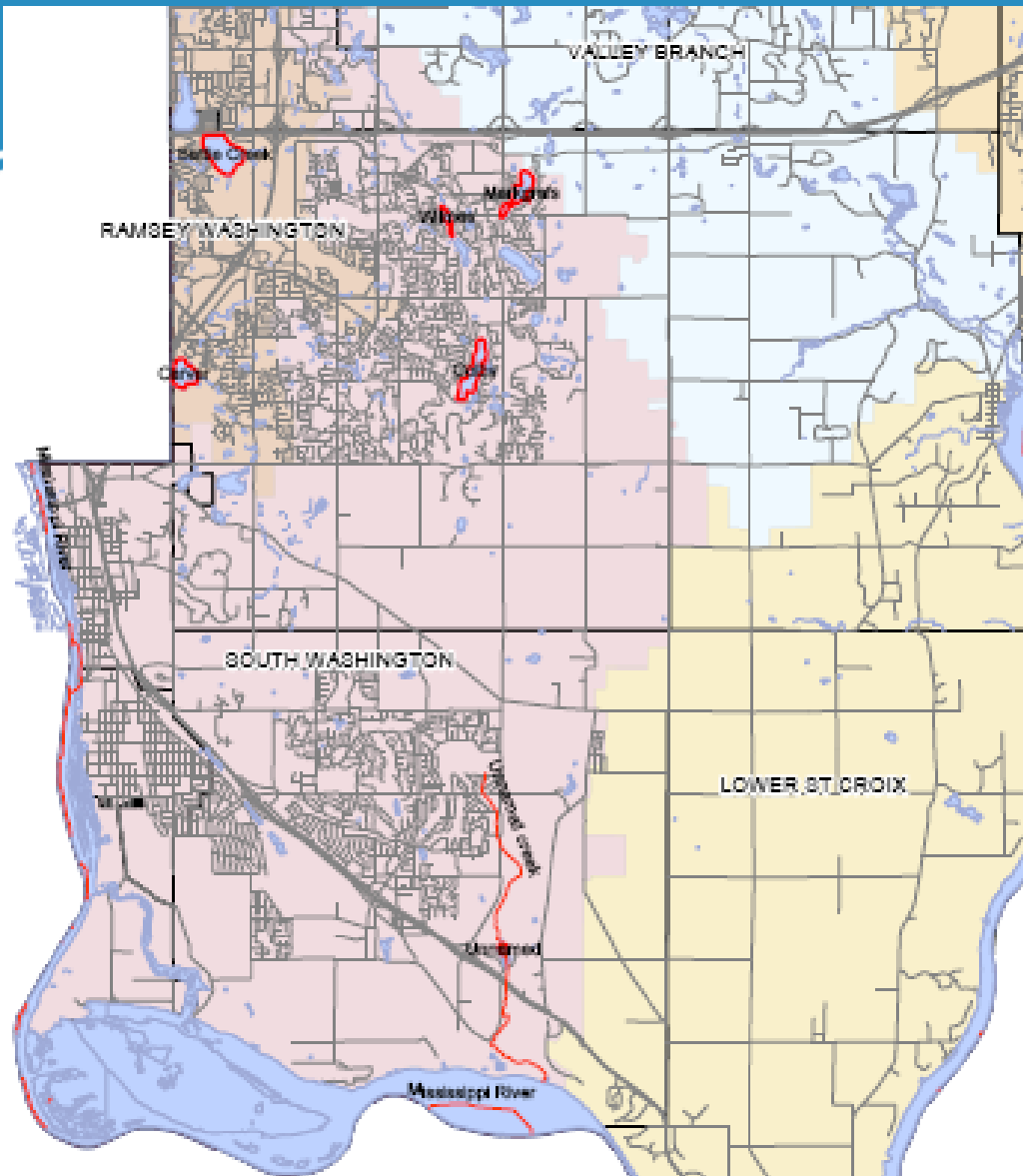
7:00



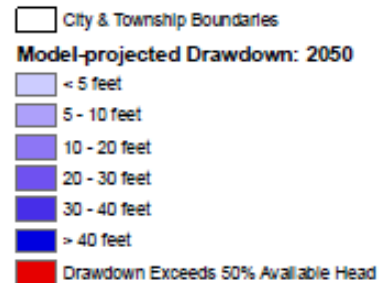
Overview

- Who's in the room
- Water Supply, Washington Conservation District
- Irrigation Installation
 - Hunter Hydrowise, Steve Pallas
 - Rainbird TM2, Andy Gangl
 - Rachio
- Next Steps
- Questions

Local Water Issues



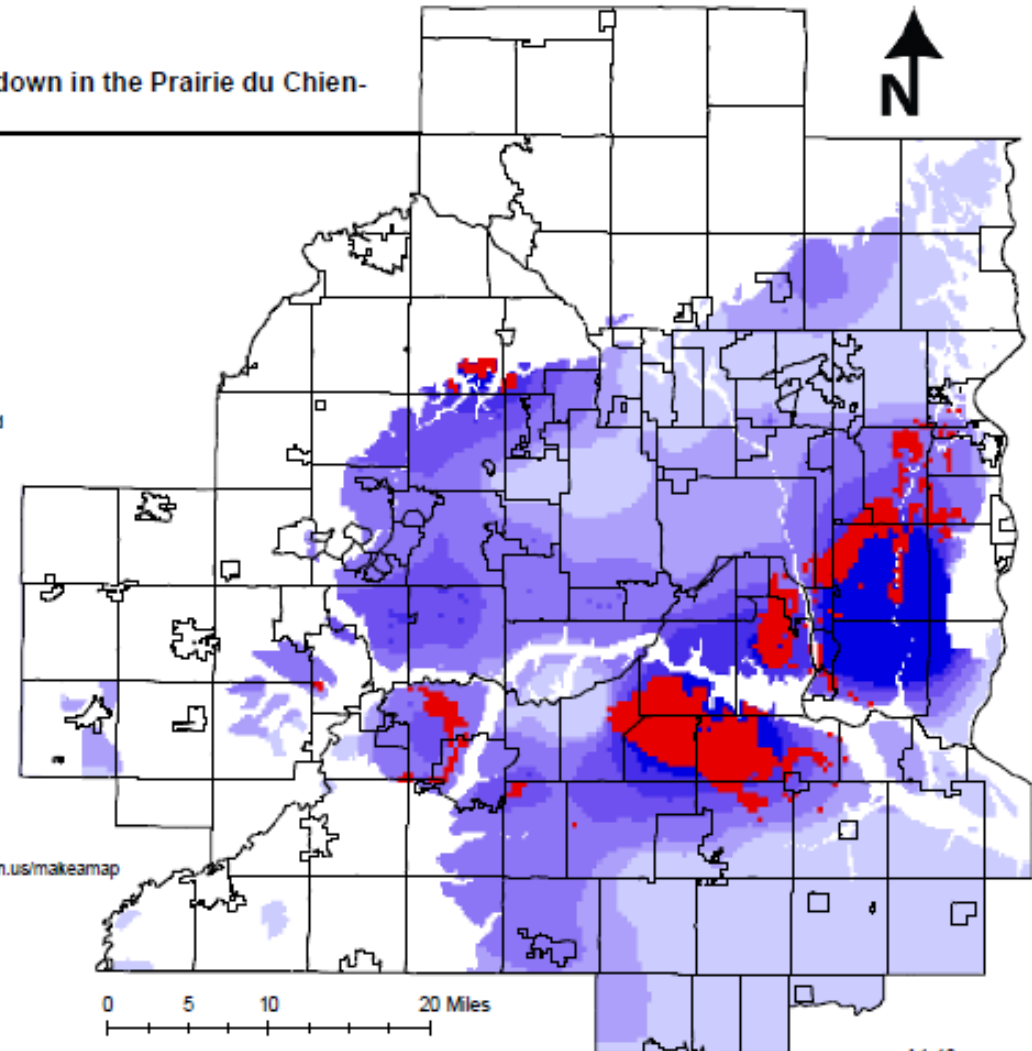
2050 Model-projected Drawdown in the Prairie du Chien-Jordan Aquifer

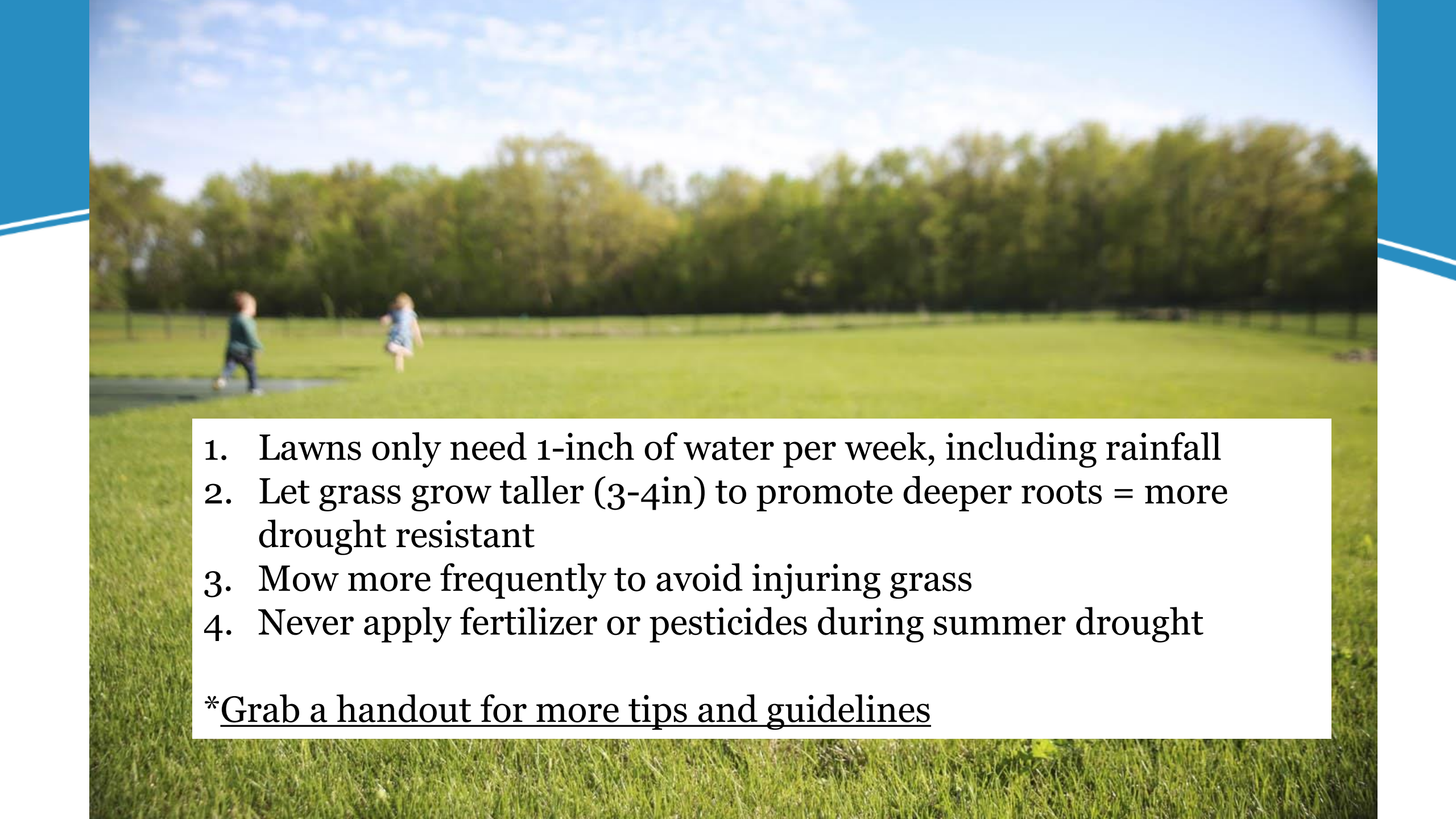


Note: These model results assume long-term average conditions and continued development of traditional water supplies. Summer conditions may exacerbate short-term drawdown.

Metropolitan Council, 8/26/2009
View datasets online at <http://gis.metro.state.mn.us/makeamap>

Source:
Metropolitan Council



- 
1. Lawns only need 1-inch of water per week, including rainfall
 2. Let grass grow taller (3-4in) to promote deeper roots = more drought resistant
 3. Mow more frequently to avoid injuring grass
 4. Never apply fertilizer or pesticides during summer drought

*Grab a handout for more tips and guidelines

Residential Smart Irrigation Controller Program

- **Today's pick-ups (Hunter and Rainbird)**
- **Signed up but aren't picking your controller up (Rachio)**
- **Sign up after today- controller pick up in April-May**

How to Set Up Your Hydrawise™

Hunter®

The Most Complete Wi-Fi Irrigation Solution

Steve Pallas 651-216-8652

HUNTER INDUSTRIES
Built on Innovation®

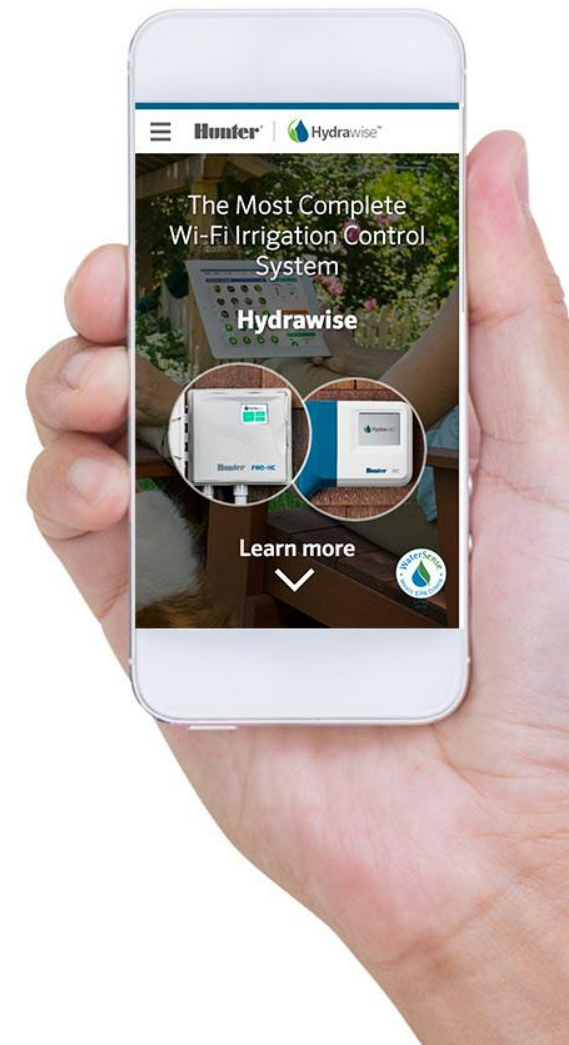
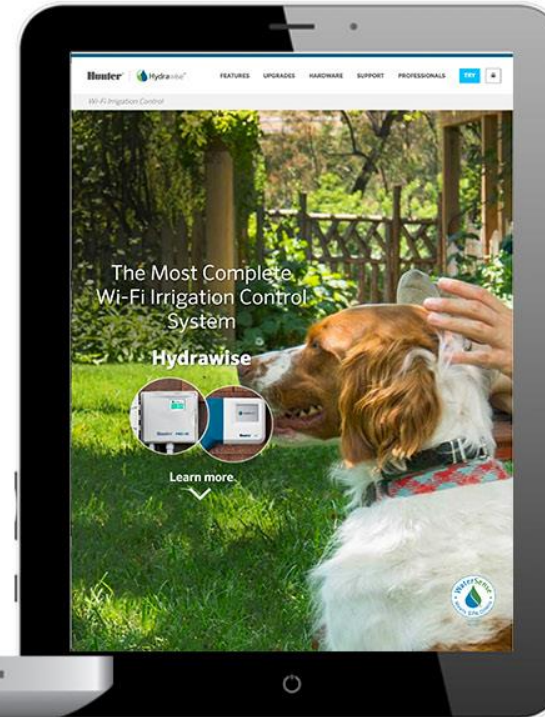
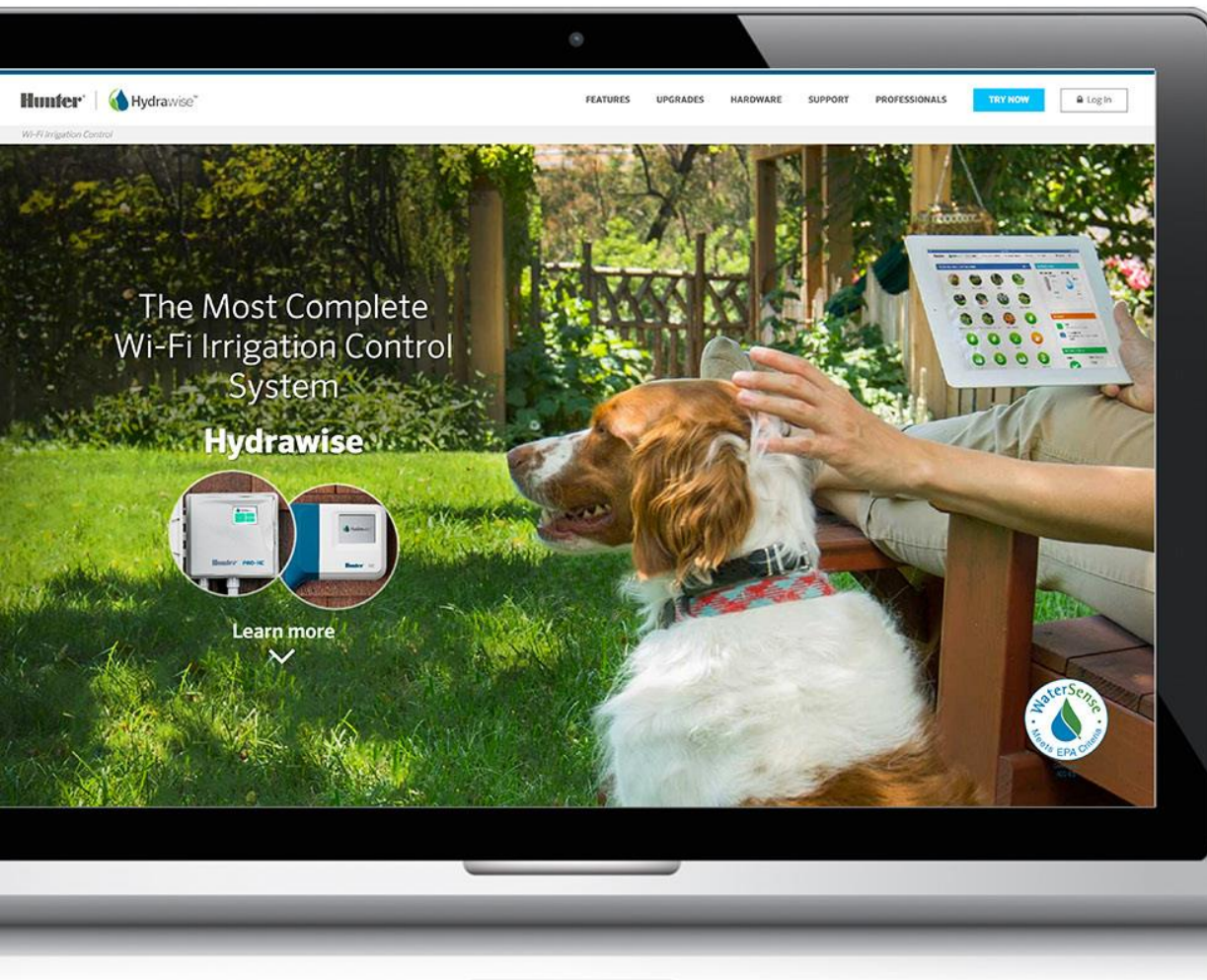


Meet the New Pro-HC Controller with
Hydrawise™ Web-based Software

- Rugged Indoor / Outdoor case • Dedicated Master Valve
- Accepts flow meters • Built-in Milliamp sensor
- Built-in Wi-Fi • Touch screen for easy set up
- 6, 12, 24 station models.

[Learn more](#)





Meet the New Pro-HC Controller with Hydrawise™ Web-based Software

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- Built-in Wi-Fi • Touch screen for easy set up
- 6, 12, 24 station models.

Learn more



Hunter®

All information is in your Quick Start Guide.





Step 1

Gather your information from your existing controller.

- Write down wiring schematic or take photo
- Program start times
- Station run times
- Odd/Even watering day

Step 2

Install your Pro-HC Controller

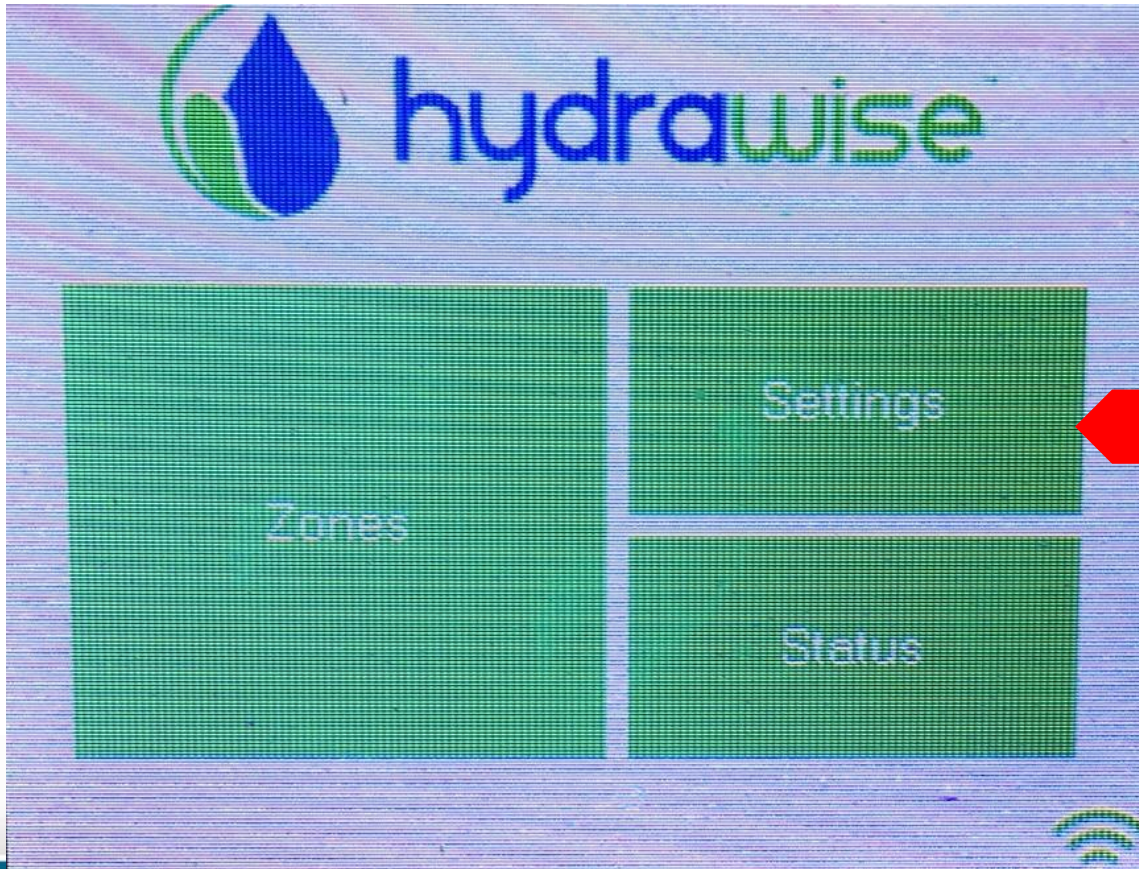


**I'm not an IT guy,
How do I set up
this Wi-Fi?**

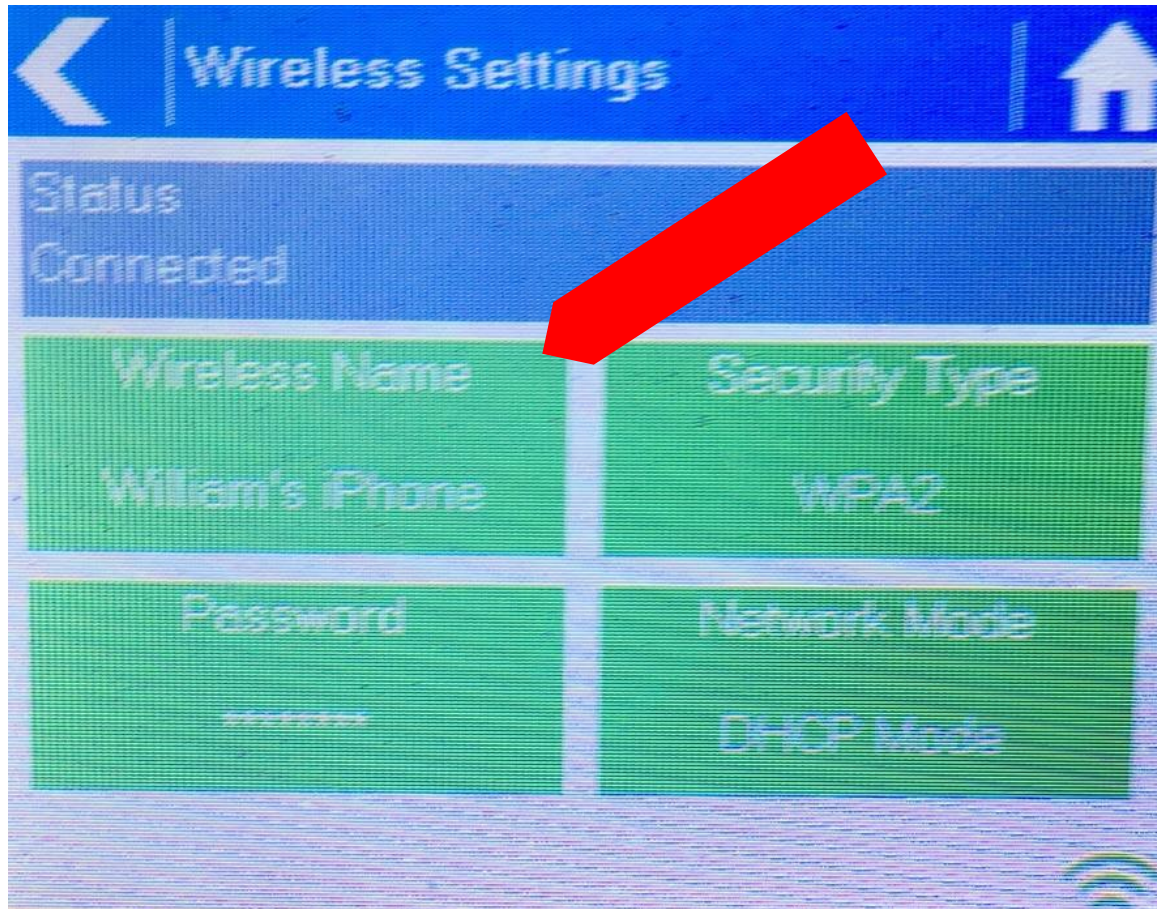


Step 3

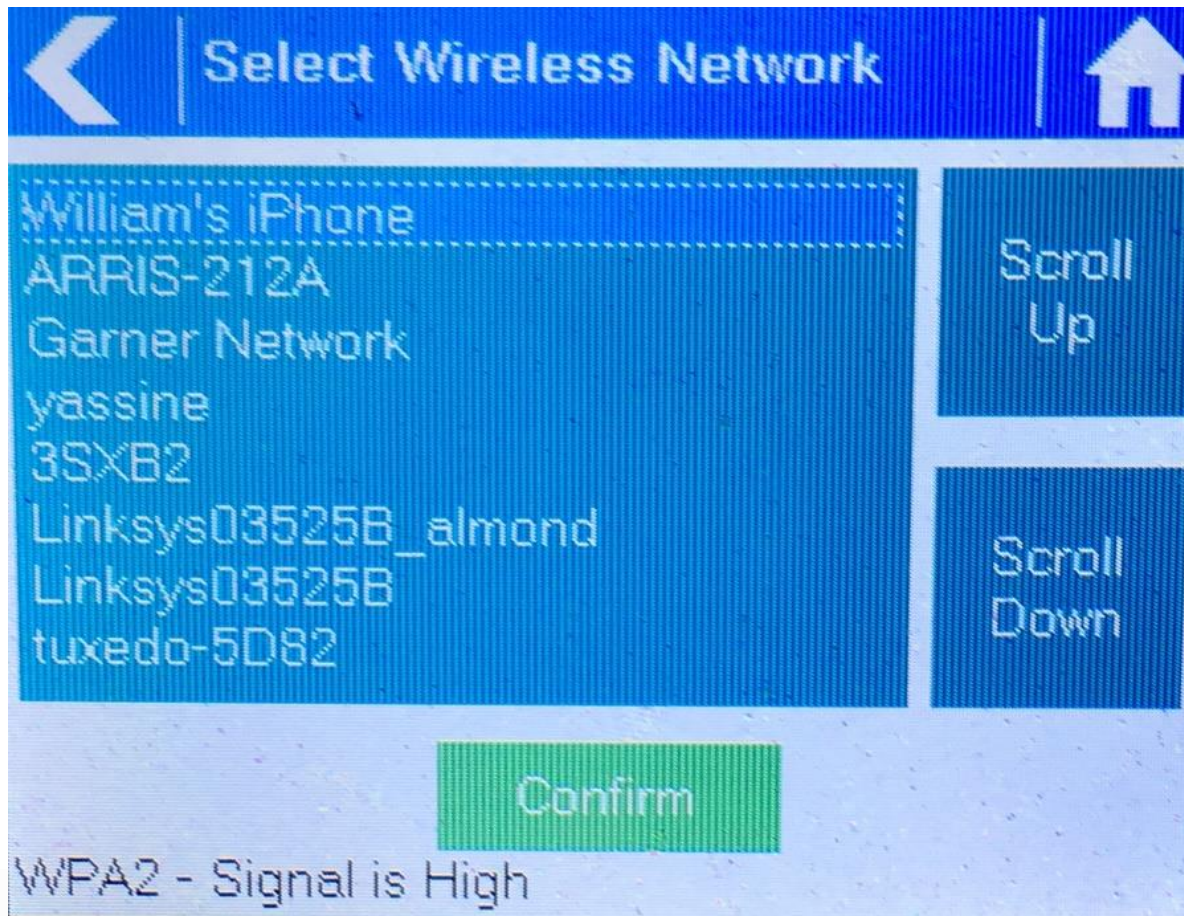
Hydrawise Wi-Fi Set-Up



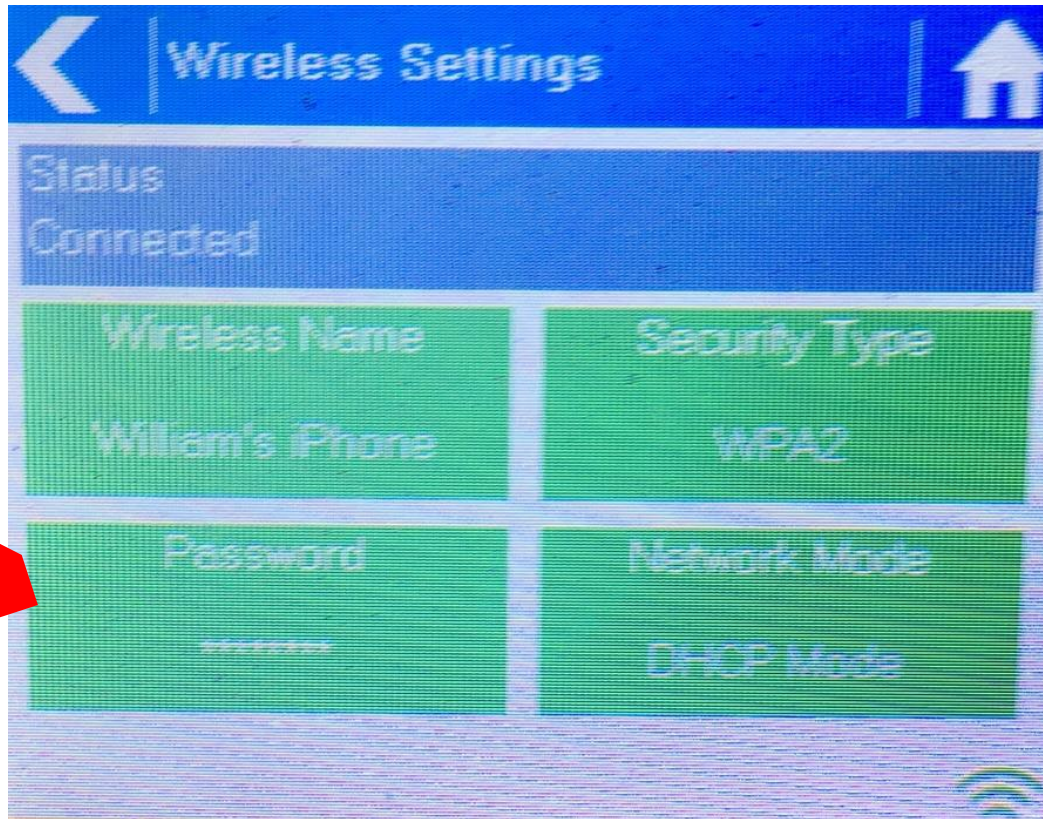
- Tap Settings on the touchscreen



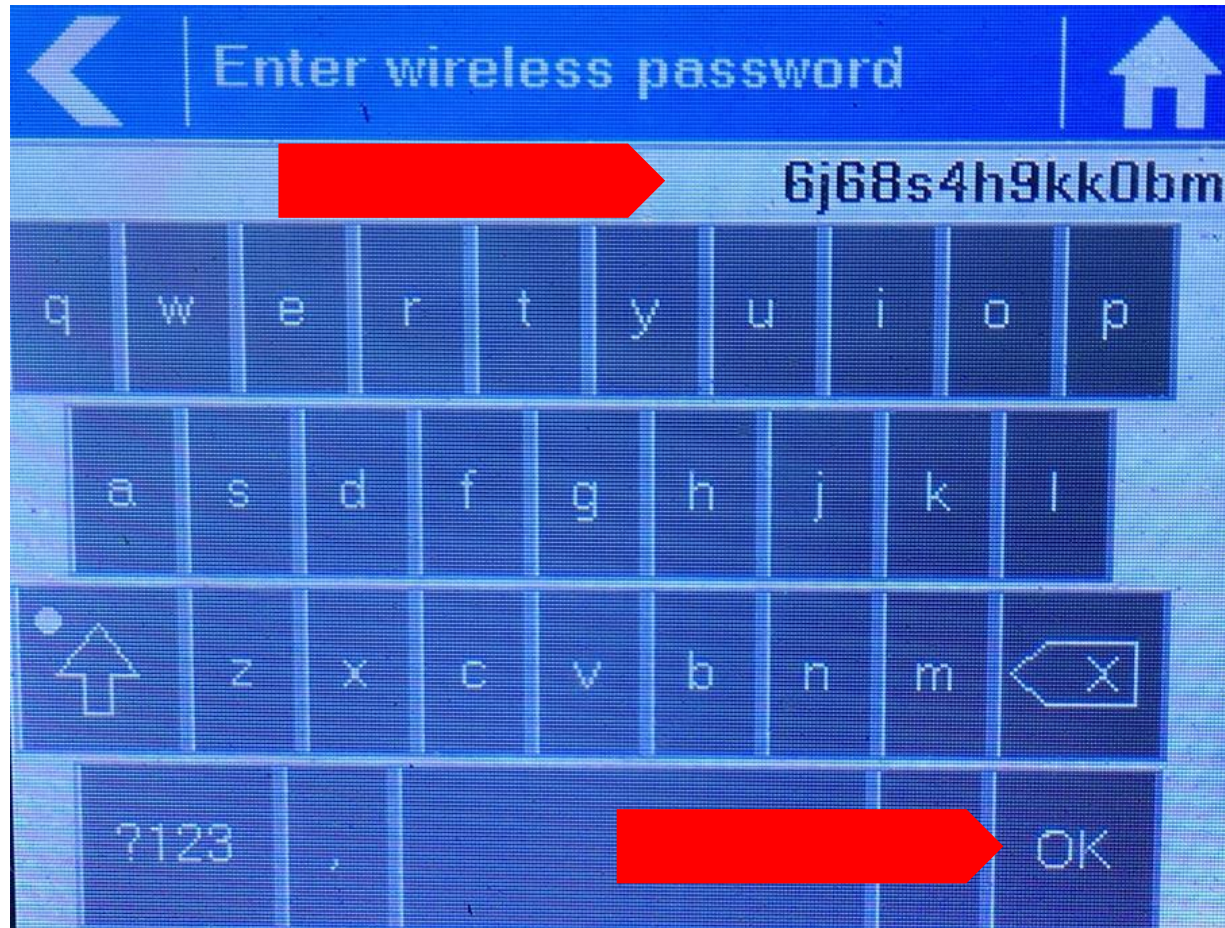
- Tap Wireless Name



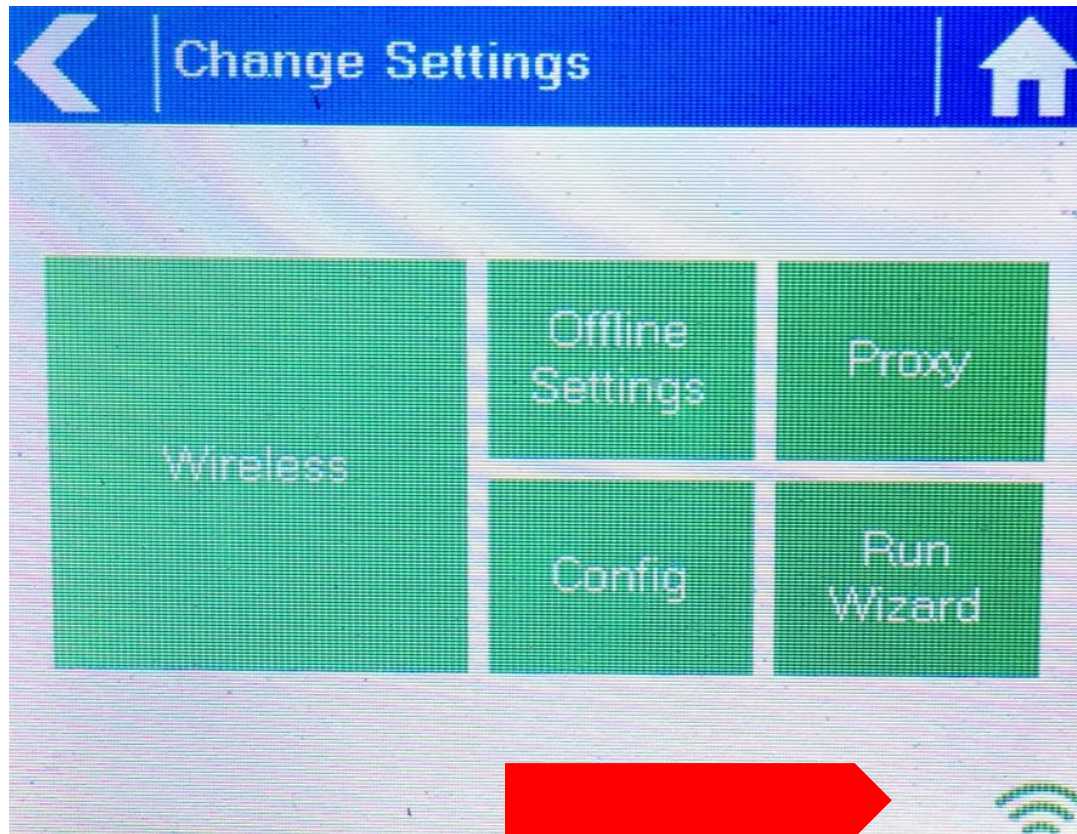
- A list of existing Wi-Fi networks will appear. Highlight the one that you want to use and hit Confirm.



- Tap Password



- Type in the password for the Wi-Fi network using the touchscreen. Hit OK.



- Done!

Step 4

Go to www.Hydrawise.com


Hunter | **Hydrawise™**

FEATURES UPGRADES HARDWARE SUPPORT PROFESSIONALS **TRY NOW** [Log In](#)


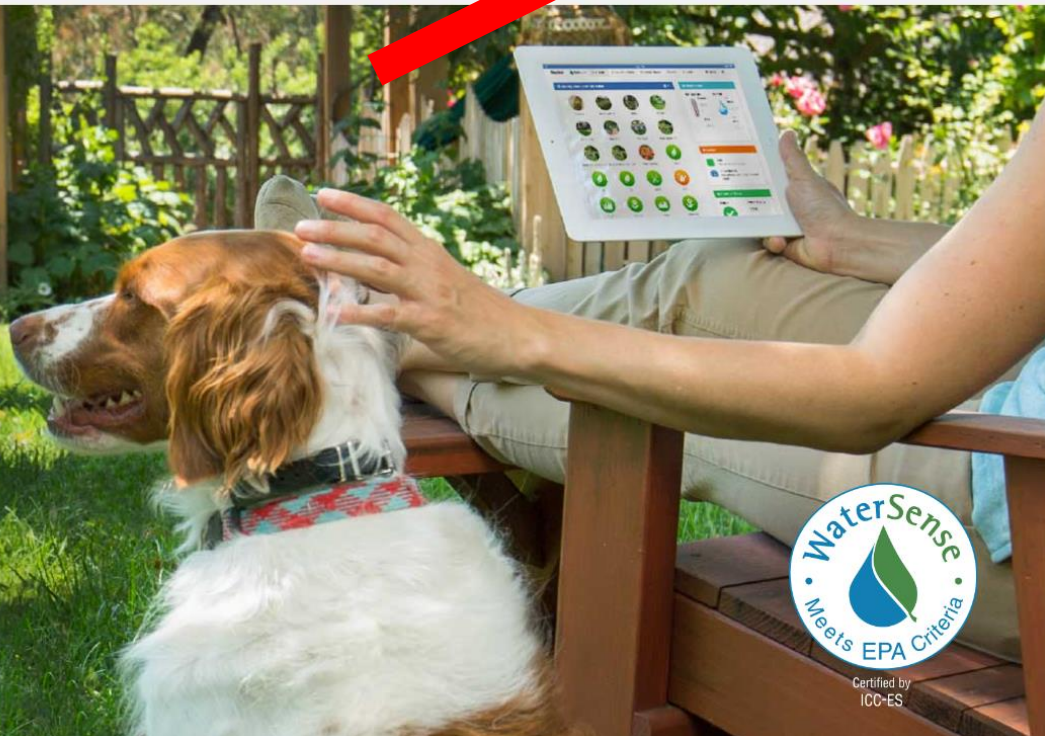
Wi-Fi Irrigation Control

The Most Complete Wi-Fi Irrigation Control System

Hydrawise




[Learn more](#)



Certified by ICC-ES

Register for an account



Hunter®

Log into Hydrowise


Email

Password


[Forgot password?](#)

Log in

Or via



You don't have an account? [Register Now!](#)



Register for an account

Create an account here to configure your Hydrowise or Hunter HC controller. You don't need to have purchased a controller - you can do everything as though you owned a controller except for the watering bit!

Once you have your Hydrowise or Hunter HC controller, simply enter its serial number into your account and it will download your settings and start saving water immediately.

Your name

Email


Email (confirm)

Are you a landscape or irrigation contractor?

No

[Back to login](#) **Register**

Fill in your information



Register for an account

Create an account here to configure your Hydrowise or Hunter HC controller. You don't need to have purchased a controller - you can do everything as though you owned a controller except for the watering bit!


Once you have your Hydrowise or Hunter HC controller, simply enter its serial number into your account and it will download your settings and start saving water immediately.

×

Are you a landscape or irrigation contractor?

▼

[← Back to login](#) [Register](#)

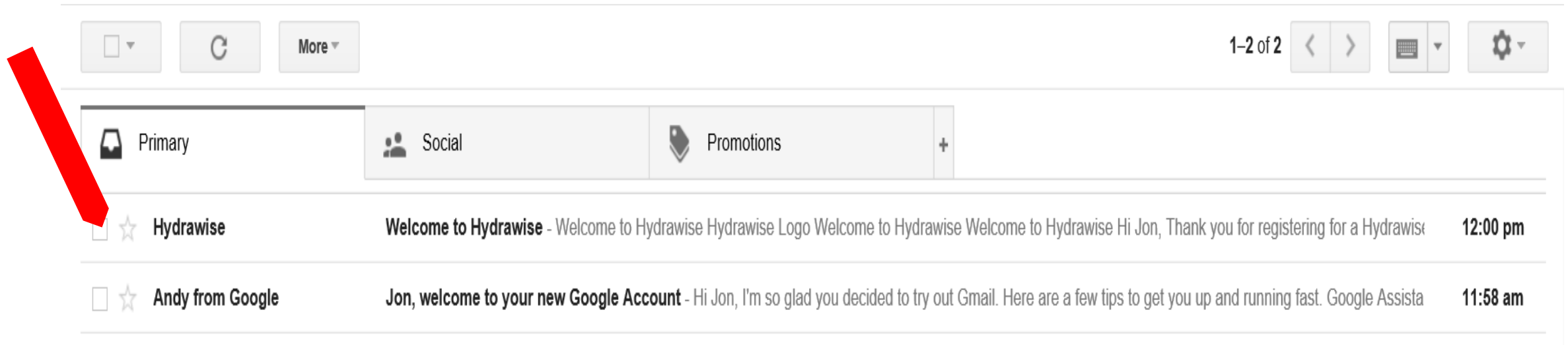


Register for an account

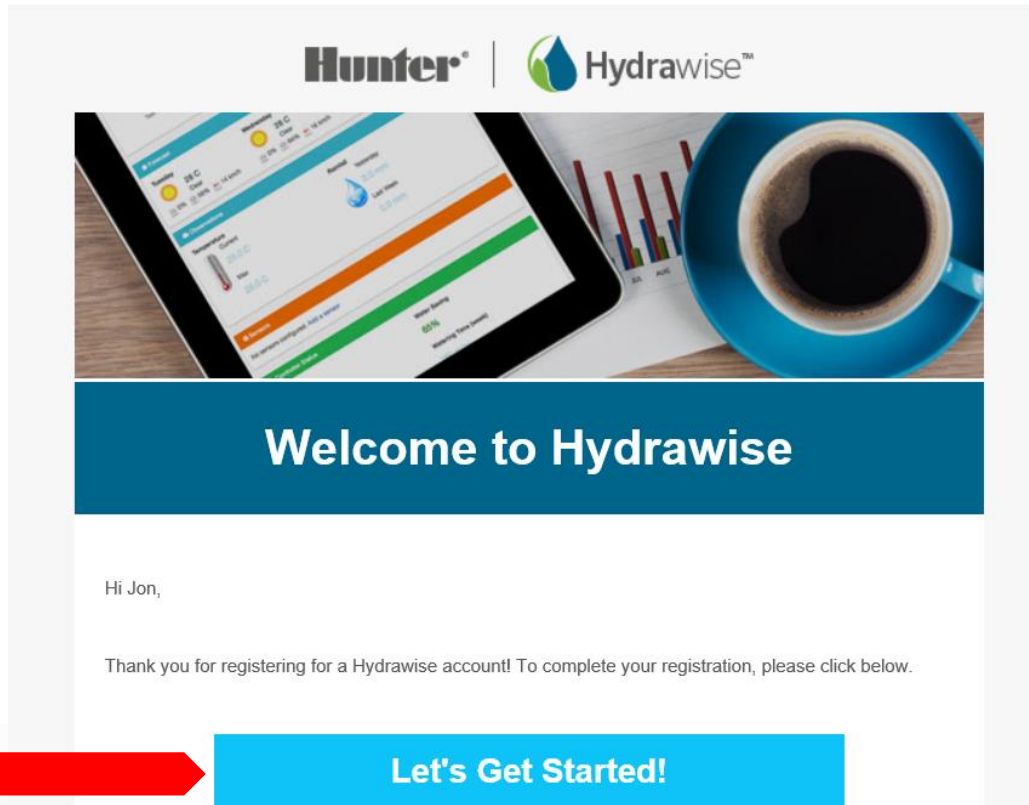
Thanks for registering! We've sent an activation email to hydrotest666@gmail.com - click on the link in the email to log into your account. Be sure to check your spam folder in case the message gets stuck in there!

[← Back to login](#)

Receive email from Hydrawise



Follow the instructions



- Set up a password

Serial # location

1 Model ▶ 2 Name ▶ 3 Location ▶ 4 Master Valve ▶ 5 Add Zones ▶ 6 Set Watering Time

Controller Name

Please choose a name for your Hunter HC Controller

Insert your Hydrowise-Ready controller serial number here. Leave this empty if you don't have a controller. **i**

Exit Wizard



Add your Free Weather Station

1 Model

2 Name

3 Location

4 Master Valve

5 Add Zones

6 Set Watering Times

Woodbury, MN, USA

+

-

Map data ©2018 Google

0 in (10%)
Rainfall

%
Humidity

20.1 mph
Wind Speed

Weather Stations

Your Home plan allows you to choose 1 Free Airport Weather Station updated daily. You can [upgrade](#) to an Enthusiast plan at any time to support multiple weather stations with hourly updates. With multiple weather stations your weather readings are averaged out to give a higher degree of rainfall accuracy.

Closest Station 1.31 mi
Jordan Ct, Woodbury, MN, Saint Paul, US

31 Stations

4 Free Airport Weather Stations

27 Personal Weather Stations

Exit Wizard

Back

Next

HUNTER INDUSTRIES
Built on Innovation®

Hunter®

Congratulations!

You've completed configuration of your Hunter HC controller.

Our system will now start scheduling your garden's watering based on your settings. From your [Dashboard](#) you can see all your zones and when they are scheduled to run next. Based on your weather settings we will adjust your watering schedules using the weather stations that you have selected.

Reports showing your water usage, water savings and weather station temperatures and rainfall are available from the [Reports](#) page.


Of course, a trial can only show you how much water you would have saved! Once you're ready to start saving water and controlling your watering system remotely for real you can purchase a controller and it will automatically sync to your account.


 [Go to My Dashboard](#) 

Zones

Each of your controller's zones is listed below. When a zone needs to run it will water at the next available [Program Start Time](#).

Master valve: No master valve 


[Add a New Zone](#)



Note: Watering Type

Zone Details ▶ Time Based Schedule ▶ Cycle & Soak ▶ Advanced


ZONE NAME
Assign a name for this irrigation zone

1-Front Lawn/Turf/5-Hunter PGP

ZONE NUMBER
Choose the zone number that this zone is wired to on your Hunter controller

Zone 1

ZONE ICON
Choose the icon you want to see on the dashboard for this zone



WATERING TYPE
☒ Time Based Schedule ☐ Smart (ET) Schedule
Water at a specified frequency (eg. every 1 week) and adjust schedule based on temperature and rainfall

Cancel < Prev Next > ✓ OK

Zone Details ▶ Time Based Schedule ▶ Cycle & Soak ▶ Advanced

WATERING TYPE
☒ Enter Time and Frequency below
☐ Use a Preconfigured Watering Schedule

WATERING LENGTH
The number of minutes this zone will run for each time

30 minutes

WATERING FREQUENCY
Choose how to often this zone should run

☒ Every Program Start Time ☐ Interval Based Watering

SCHEDULE ADJUSTMENT
Choose how to adjust the watering time based on your weather triggers


Water longer when hot

Cancel < Prev Next > ✓ OK

Add a Start Time

Program Start Times

Times are listed below. These times specify when your co



Add Watering Time

Set Time ▶ **Select Zones**

START TIME
Enter the time for this Program Start Time

WATERING TYPE

Normal watering is permitted to start at this time

WATERING DAYS
Select the days of the week to water

EVEN DAYS



Suspend via Predictive Watering™ ⓘ



than

Don't water when today's
forecast temperature is **less**

ON

46 F



Don't water when the chance of
rain is **higher than**

ON

90 %



Don't water when forecast wind
speed ⓘ is **higher than**

ON

25 m/h





Suspend Watering via Weather Station Measurements



Don't water when yesterday's rainfall is **higher than**

ON

0.5 in



Don't water when the last 7 days rainfall is **higher than**

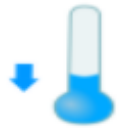
ON

1 in





Variable Watering



Water 50 % less when
today's forecast temperature **is**
less than

ON

70 F



Water 30 % more when
today's forecast temperature **is**
above

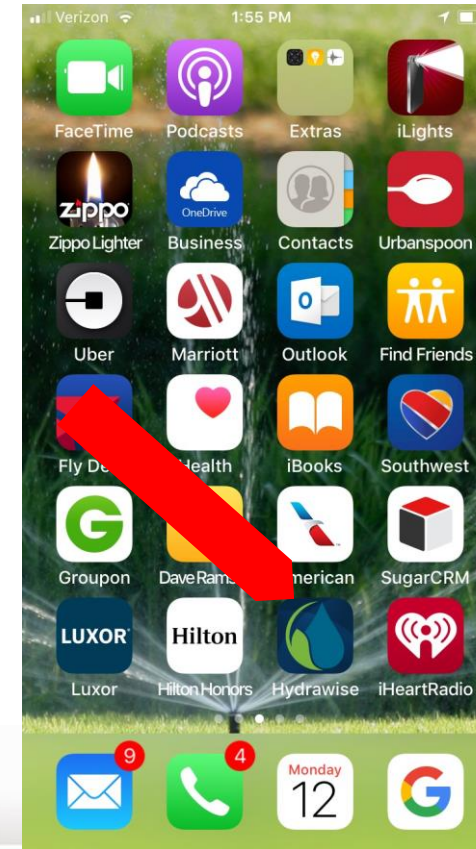
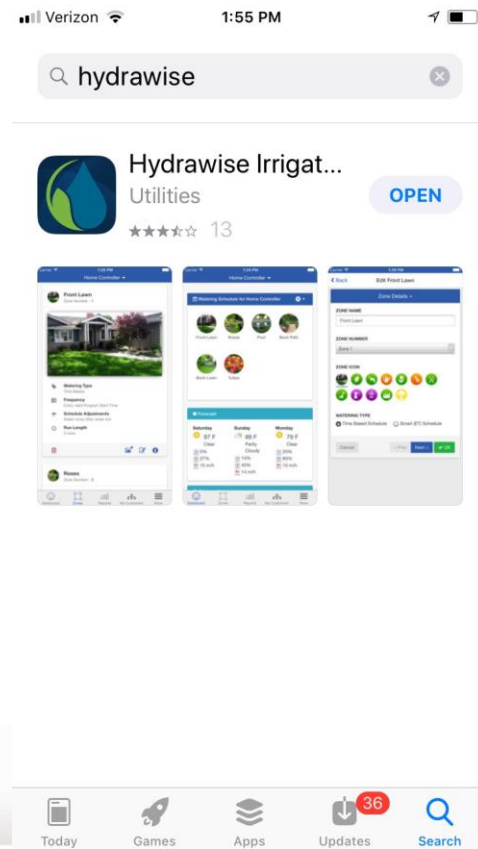
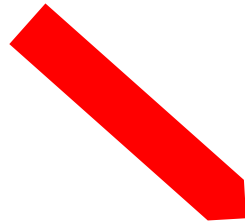
ON

90 F



Step 5

Download Hydrawise App



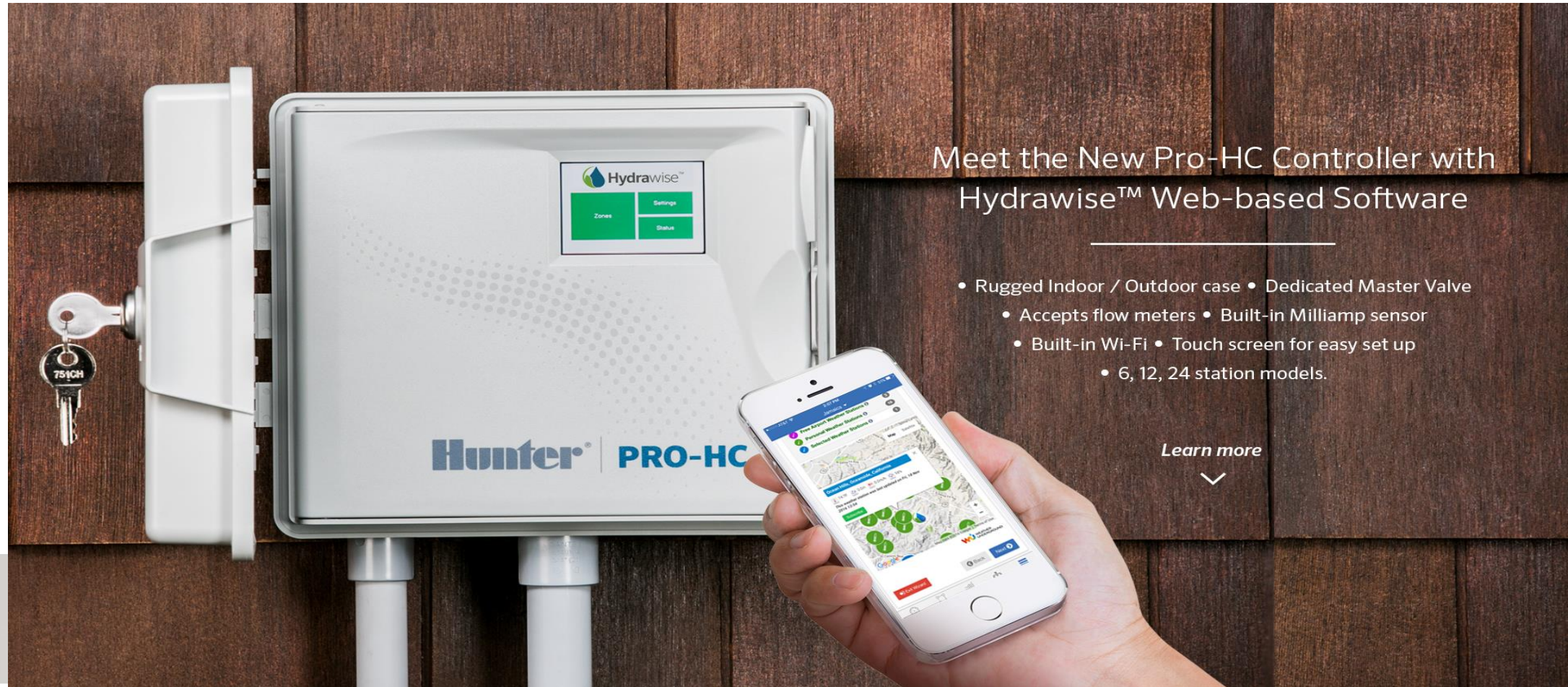
Hydrawise and Amazon



Integrated with Amazon Alexa devices
for total hands-free home automation.



Go to your Amazon account, go to skills and add your Hydrawise controller to Alexa.



Meet the New Pro-HC Controller with Hydrawise™ Web-based Software

- Rugged Indoor / Outdoor case • Dedicated Master Valve
- Accepts flow meters • Built-in Milliamp sensor
- Built-in Wi-Fi • Touch screen for easy set up
- 6, 12, 24 station models.

[Learn more](#)



Thank You.

Steve Pallas

Hunter Sales Manager

651-216-8652

Steve.pallas@hunterindustries.com

Hunter®

Hydrawise Training and Support

HUNTER INDUSTRIES
Built on Innovation®

- Find Hydrawise support @ www.Hydrawise.com
- Youtube: Type in Hydrawise
- Hunter Tech line: 1-800-733-2823
- Steve Pallas 651-216-8652 or steve.pallas@hunterindustries.com

ALERTS & ALARMS SIGNIFY PROBLEMS

FLOW MONITORING & FAULTY WIRING ISSUES
ARE MAINTAINED IN LOG REPORTS



Rain Bird





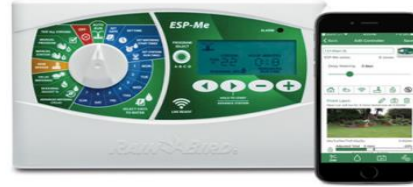
GIVING YOU THE POWER TO

TAKE CONTROL

Take Control with Smart Irrigation



ESP-TM2
Residential



ESP-Me
Residential / Light
Commercial

+



LNK WiFi Residential
/ Light Commercial

- **Widest WiFi Controller Offering in the Industry**
- **‘Select’ Contractor Network for Installation & Service**
- **Proven, Quality Hardware**
- **Easy to Install**
- **Simple Intuitive App is Homeowner Friendly**
- **Now Amazon Alexa-enabled**



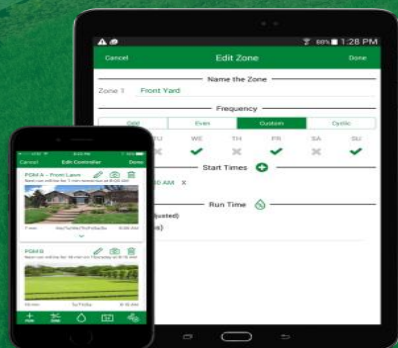
ESP-TM2

- Fixed Station (4,6,8,12)
- LNK™ WiFi, “Smart” Capable
- 3 Programs, 4 Starts



ESP-ME

- Modular (4-22 Zones)
- LNK™ WiFi, “Smart” Capable
- WiFi Ready Faceplate Upgrade Available
- 4 Programs, 6 Starts



TAKE CONTROL

Access from Anywhere

- Simple User Interface
- Smart Device Accessibility
- Water Savings



ESP
LNK™ WiFi



Simple Access from Anywhere in the World

- **Introducing the Rain Bird mobile app for Apple and Android smart devices**
 - Download for FREE at the Apple App Store or Google Play Store, search for “Rain Bird”
 - When accessing from an iPad, select “iPhone Only” at top of screen
- **Account-free access! No need to provide personal information!**
- **NO recurring annual fees to get started**
- **True mobile interface designed for smart devices**







RAIN BIRD

10 zones



ESP-TM2

ESP-TM2 series

12 zones



Ex

ESP-Me series

4 zones



Fire House

ESP-TM2 series

6 zones



Add Controller

Help/Support

<http://wifi-pro.rainbird.com/how-it-works/>

Verizon

6:35 PM

85%

Cancel

Edit Schedule

Done

PGM A

Custom Name

Frequency

Odd

Even

Custom

Cyclic

Seasonal Adjustment

Use Automatic Seasonal Adjust for this Program

Seasonal Adjustment:

15%

Start Times

+

6:00AM

X

Zones

+

Programmed (Adjusted)

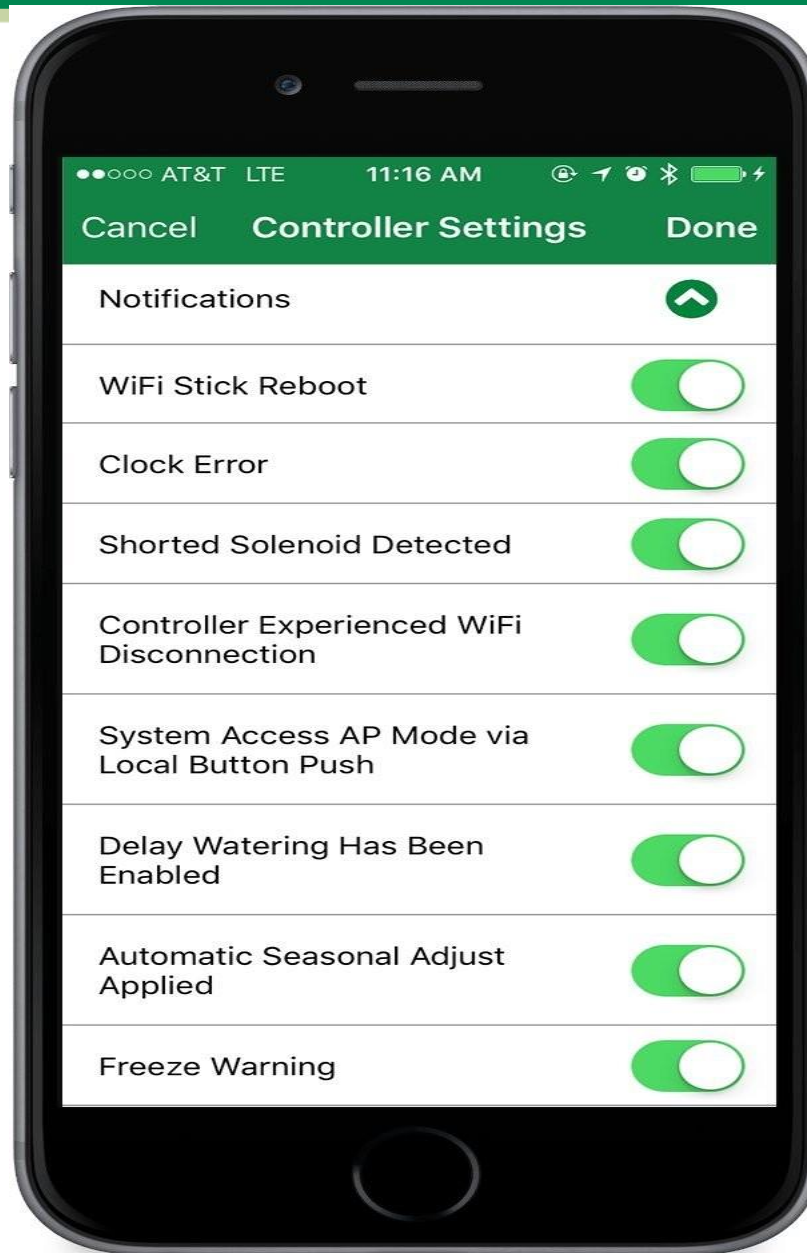
Patio

35 min (6 min)

Street

10 min (2 min)





Water Saving Features

- Daily seasonal adjustments calculated from real-time and historical weather data for each ZIP code (requires WiFi)
- Saves up to 30% in water
 - EPA WaterSense certifications for ESP-TM2 and ESP-Me



HOME AUTOMATION INTEGRATION

- Amazon Alexa
- Alarm.com



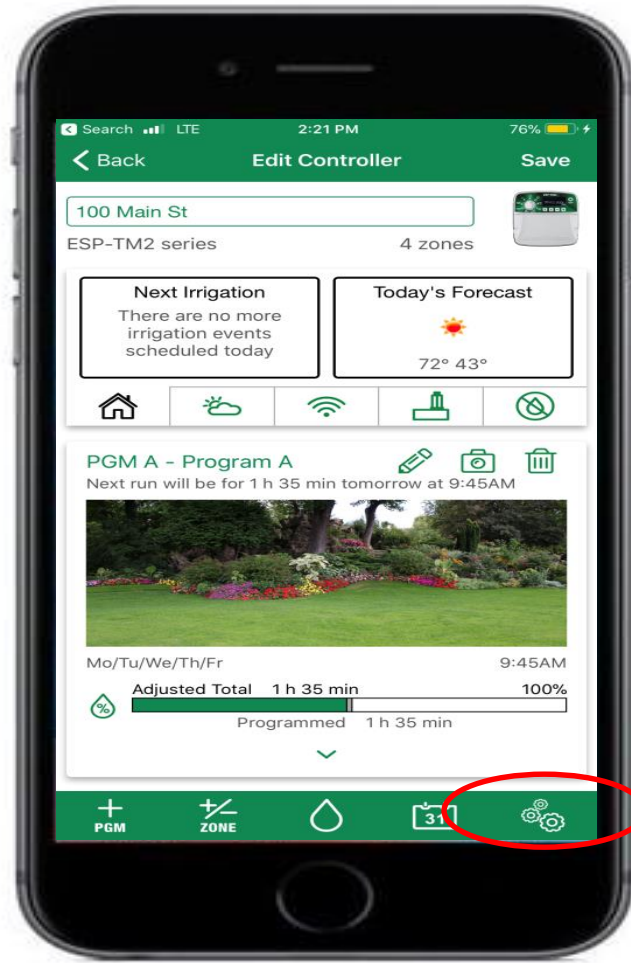

amazon alexa



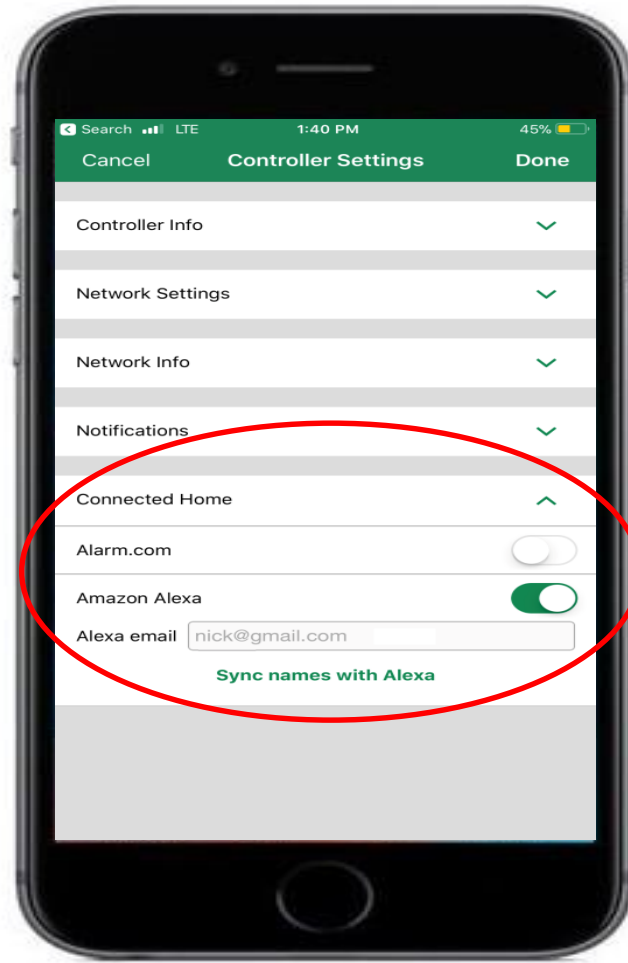
AMAZON ALEXA INTEGRATION

- ~130 Commands and Inquiries Available
- 20 Help Functions
- Recognizes Custom Zone and Program Names
- Reports Weather
- Reports Sensor and Seasonal Adjust Info

Enabling Alexa on Rain Bird App



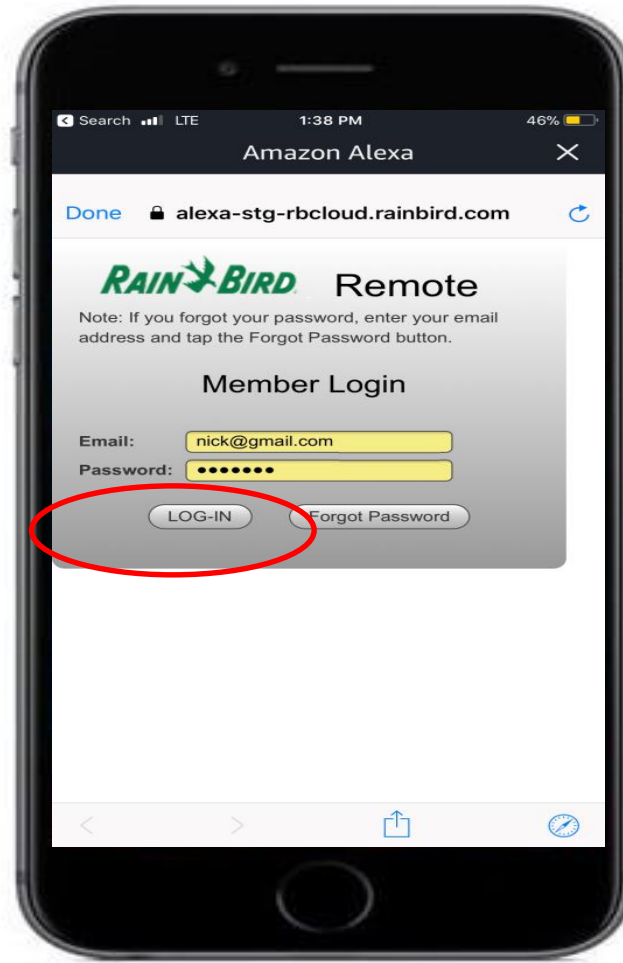
Enabling Alexa on Rain Bird App



Login to Enable Skill

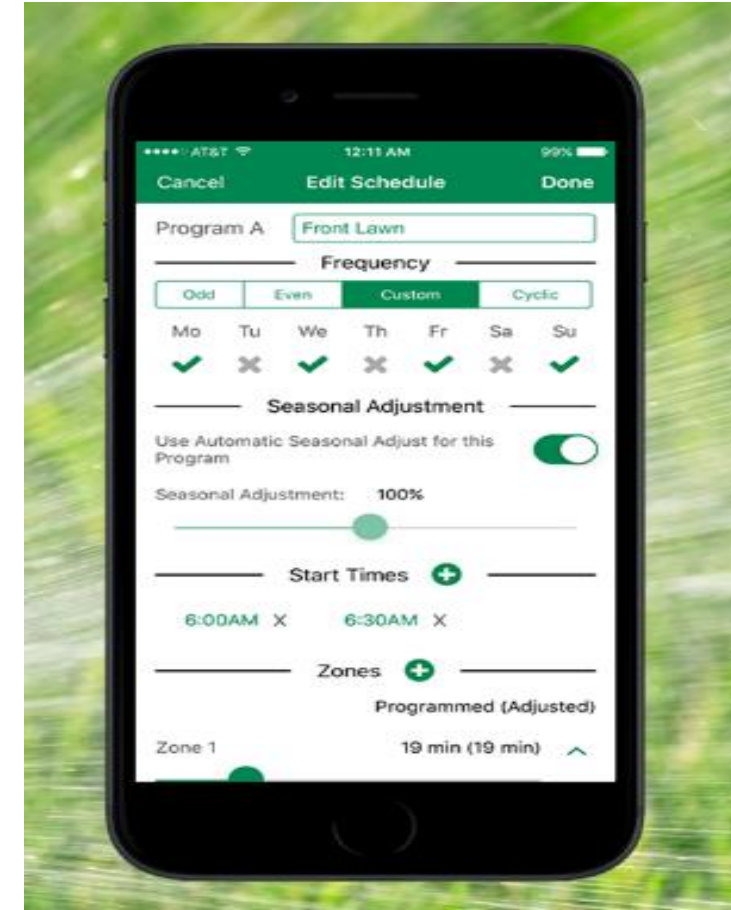
Use your:

1. Alexa email account
2. Rain Bird controller password



Alexa: Unique to Rain Bird

- **Custom zone & program names**
 - “Ask Rain Bird to water the Pepper Garden”
 - “Ask Rain Bird to run program Fall Watering”
- **Detailed weather information**
 - “Ask Rain Bird for tomorrow’s weather”
- **Sensor management**
 - “Ask Rain Bird if the Rain Sensor is tripped”
 - “Ask Rain Bird for the Rain Sensor setting for Program Front Lawn”



<http://wifi-pro.rainbird.com/>

Rachio

- **Unplug existing controller, replug wires in the same order**
- **Download app and connect to WiFi**
- **Set up zones: plant type, soil type (clay), nozzle, sun/shade**
- **Compatible with smart home devices**
- **rachio.com/support**

ALL

- **Set controller to correct odd/even (guide included in packet)**
- **No watering between noon and 5**
- **Send photo after installation**
 - **Controller lit up**
 - **Yellow sticker visible**
 - **Rainbird: photo with LINK visible**



Next Steps

- **Hunter/Rainbird Controllers: install and send photo in 1 month (4/14/2018)**
- **Rachio- pick up day emailed**
- **If you haven't signed up yet:**
woodburymn.gov/smartirrigation
- **Paper applications: hand in today**
- **City cost-share program for association and commercial properties- accepting applications through 4/13/18**

Questions?

